

Dielectric Relaxation Time Spectrum of  
Methyl Cellulose In Water, by W. Kuhn,  
P. Moser.  
GERMAN, per, Zeitschrift fuer Elektrochemie,  
Vol 65, 1961, pp 649-651.  
IICH-8716

Sci-Chem  
Jul 66

305,550

Dielectric Behavior of Epoxy Resins, by  
N. Kobale, H. Lobl,  
GERMAN, per, Zeitschrift fur Elektrochemie,  
Vol 65, 1961, pp 662-669. P911009667  
AEC SC-T-66-0764

Sci/Materials  
Feb 67

318,SS4

62-16199

Grimmeiss, H. G., Rabenau, A. R. and others.  
ON THE ELECTRICAL AND OPTICAL PROPERTIES  
OF SOME CHALKOGENIDES OF THE ELEMENTS  
OF THE IVth SUB-GROUP. [1962] [19]p. (11 figs.  
omitted) 15 refs.

Order from SLA \$1.60 62-16199

Trans. of Zeit[schrift] f[ur] Elektrochemie  
(West Germany) 1961, v. 65 [no. 9] p. 776-783.

DESCRIPTORS: \*Titanium compounds, \*Zirconium  
compounds, \*Hafnium compounds, \*Chalcogenides,  
\*Crystal structure, Electrical properties, Optics,  
Spectrographic analysis, Photoconductivity.

Electrical and optical studies on single crystals of  
chalcogenides of the elements of the IV-th sub-group  
in particular of titanium are reported. The type of  
conductivity of those compounds was established.  
With the exception of the metallic conducting TIS the  
(Physics--Solid State, TT, v. 8, no. 7) (over)

I. Grimmeiss, H. G.  
II. Rabenau, A. R.

Office of Technical Services

Matajec, R.

PHOTO-CONDUCTIVITY MEASUREMENTS ON OPTICALLY SENSITIZED ZnO: EXPERIMENTS ON THE MECHANISM OF OPTICAL SENSITIZATION (Photoleitungsmessungen an Optisch Sensibilisiertem ZnO: Experimente zum Mechanismus der Optischen Sensibilisierung). [1962] [10]p. (foreign text included) 22 refs.

Order from SLA \$1.10

62-20018

Trans. of [Zeitschrift für Elektrochemie] (West Germany) 1961, v. 65, no. 9, p. 783-786.

DESCRIPTORS: \*Photoconductivity, \*Zinc compounds, \*Oxides, Measurements, Photolysis, Pigments, Sensitivity, Illumination, Photographic emulsions, Photosensitivity, Photochemistry.

With the optical sensitization of silver halide emulsions, the pigment molecules return to their initial (Chemistry--Physical, TT, v. 10, no. 4) (over)

62-20018

I. Matajec, R.  
II. Title: Experiments...

Office of Technical Services

62-18107

Dietzel, A.  
FIELD STRENGTHS OF CATIONS AND THEIR RELATIONS TO DEVITRIFICATION PHENOMENA, TO FORMATION OF COMPOUNDS, AND TO MELTING POINTS OF SILICATES (Die Kationenfeldstärken und ihre Beziehungen zu Entglasungsvorgängen, zur Verbindungsbildung und zu den Schmelzpunkten von Silicaten). [1962] 143p. (foreign text included) 21 refs.  
Order from SLA \$4.60 62-18107

I. Dietzel, A.

Trans. of Zeitschrift für Elektrochemie (Germany)  
1962, v. 48, no. 1, p. 9-23.

DESCRIPTORS: \*Silicates, Melting, \*Glass, \*Borates, Oxides, \*Phosphates, Separation, Liquids, Phase studies, Chemical reactions, Crystal structure, Stability, Calorimetry, Electrolysis, \*Silicon compounds, Crystallization.

(Chemistry--Physical, TT, v. 9, no. 3)

Office of Technical Services

Dielectric Behavior of Epoxide Resins,  
by M. Kobale, H. Lobl.

GERMAN, per, Z. Elektrochem., Vol 65,  
1962, pp 662-669.

\*AEC

Sci-Elec & Electronics  
Oct 66

REDUCTION AND ELECTRIC CONDUCTIVITY OF  
ZINC OXIDE. [1963] 13p. (figs. refs. omitted).  
Order from SLA \$1.60                      63-16530

Trans. of Zeitschrift für Elektrochemie (West  
Germany) 1962, v. 66, no. 1, p. 29-35.

DESCRIPTORS: \*Zinc compounds, \*Oxides, \*Reduction  
(Chemistry), Electrical conductance, Hydrogen,  
Electrochemistry.

(Chemistry--Physical, TT, v. 10, no. 7)

63-16530

Office of Technical Services

Czekalla, J. and Mager, K. J.  
THE INFLUENCE OF COMPLEX FORMATION ON  
SINGLET-TRIPLET TRANSITIONS OF AROMATIC  
HYDROCARBONS. [1962] 10p. (figs. tables refs.  
omitted).

Order from SLA \$1.10

63-10892

Trans. of Zeitschrift für Elektrochemie (West Germany)  
1962, v. 66, no. 1, p. 65-73.

DESCRIPTORS: \*Complex compounds, Naphthalene,  
Phenanthrene, Polycyclic compounds, Benzenes, Methyl  
radicals, \*Chemical bonds, \*Phosphorescence, Ab-  
sorption spectrum

The phosphorescence spectra of naphthalene, phenanthrene,  
coronene, durene, and hexamethyl benzene com-  
plexes are employed to study: (1) the influence of the  
electron acceptor in singlet-triplet transitions; (2) the  
influence of complex formation of symmetrically-  
(Chemistry--Physical, TT, v. 10, no. 1) (over)

63-10892

I. Czekalla, J.  
II. Mager, K. J.

Office of Technical Services

Eigen, M. and K. Tamm 1962  
Sound absorption in solutions of electrolytes as a consequence  
of chemical relaxation. 2. Experimental results and  
relaxation mechanisms for 2-2 electrolytes (Schallabsorption  
in Elektrolytloesungen als Folge chemischer Relaxation II.  
Messergebnisse und Relaxationsmechanismen für 2-2-wertige  
Elektrolyte)  
Zeitschrift für Elektrochemie, 66: 107-121. In German.

Transl. by Transl. Bur., Fgn. Lang. Div., Dept. of Sec. of  
State of Canada, for FRBC Marine Ecology Laboratory, Dartmouth,  
N.S., 1972, as Transl. Series No. 2064, 45p., typescript.

Avail. on Loan - NNFS, Wash., D.C.

Original Article Checked *HR*

Precision Measurements of the Dielectric Constants of Five Reference Compounds for the Determination of DC- and Dipole Moments I. Purity Tests of Cyclohexane, Benzene, Carbontetrachloride, DI-N-Butylether, and Fluorobenzene with the aid of the Modern Physio-Chemical Criteria of Purity, by R. Mecke, R. Joeckle, G. Klingenberg, 31pp.

GERMAN, per, Zeitschrift fur Elektrochemie, Vol 66, No 3, 1962, pp 239-248.  
CFSTI TT-64-18606.

Sci - Chemistry  
Mar 67

322,373

Precision Measurements of the Dielectric  
Constants of Five Reference Compounds for  
the Determination of DC- and Dipole Moments.  
II. Description of the Measuring Apparatus,  
by R. Mecke, W. Ludwig, 26pp.  
GERMAN, per, Zeitschrift fur Elektrochemie,  
Vol 66, No 3, 1962, pp 248-255.  
CFSTI TT-64-18607.

322,374

Sci - Chemistry  
Mar 67

Precision Measurements of the Dielectric  
Constants of Five Reference Compounds  
for the Determination of DC- and Dipole  
Moments. III. Measurements at 100 KC,  
by R. Mecke, R. Joeckle, 10pp.  
GERMAN, per, Zeitschrift fur Elektrochemie,  
Vol 66, No 3, 1962, pp 255-260.  
CFSTI TT-64-18608.

322,372

Sci- Chemistry  
Mar 67

On Selective Solvation of Ions in Solvent  
Mixtures, by H. Schneider. 11p.  
GERMAN, per, Zeit fuer Elektrochemie,  
Vol 66, No 4, 1962, pp 309-312.  
SLA TT-66-10350

Sci-Chem  
Sept 66

310,377

Diffusion Between Two Semi-Infinite Media  
With a Volume Change, by F. Sauer, 11 pp.  
GERMAN, per, Zeitschrift fur Elektrochemie  
66, 1962, pp. 353-363.  
\*CFSTI TT 70-58096  
AVAILABLE FROM NBS ONLY

Sci/elec  
Apr 70

Mechanism of the Formation of Two-Phase  
Oxide Films on Iron Alloys at Elevated  
Temperatures, by A. Rahmel.  
GERMAN, per, Zeitschrift fuer Elektrochemie,  
Vol 66, No 4, 1962, pp 363-367.  
NTC-71-14940-07D

BLE 5378

Feb 72

Investigation of Zirconium Compounds of Low  
Valencies, by H. Schlafer, H. Skoludok.

GERMANY, per, Z Natur Elektrochemie, Vol XVI,  
No 4, 1962, pp 367-372.

CSURD/No 6095

Sci-Chem  
May 63

234,422

Kern, J., Dörr, F., and Scheibe, G.  
DELAYED FLUORESCENCE IN CYANINE DYES.  
[1963] 13p. 26 refs.  
Order from SLA \$1.60

63-11 24

Trans. of Zeitschrift für Elektrochemie (West  
Germany) 1962, v. 66, p. 462-466.

DESCRIPTORS: \*Dyes, \*Fluorescence, \*Luminescence,  
Atomic Atomic energy levels, Absorption spectrum,  
Excitation, Electrochemistry.

Polymethinecyanines display a delayed fluorescence at  
low temperature when dissolved in alcohol-glass.  
This fluorescence cannot be understood as a high-  
temperature phosphorescence. It is interpreted as a  
recombination luminescence caused by retrapping of  
electrons which have been released from the dye ions  
by relatively long-wavelength radiant energy and which  
have been trapped temporarily in electron traps of the  
(Chemistry--Physical, TT. v. 10, no. 11)      (over)

63-18724

1. Title: Cyanine dyes
2. Title: Polymethine  
cyanines

- I. Kern, J.
- II. Dörr, F.
- III. Scheibe, G.

Office of Technical Services

Ratchford, Robert J. and Rickert, Hans.  
AN ELECTROCHEMICAL KNUDSEN CELL IN THE  
INVESTIGATION OF THE THERMODYNAMICS OF  
SELENIUM VAPOR AND CONCERNING THE DECOM-  
POSITION OF  $Ag_2Se$ . [1963] [7]p. (figs. omitted)

14 refs.

Order from SLA \$1.10

63-10909

Trans. of Zeitschrift für Elektrochemie (West Germany)  
1962, v. 66, no. 6, p. 497-502.

DESCRIPTORS: \*Electrochemistry, \*Electrolytic  
cells, \*Selenium, Vapors, \*Thermodynamics, \*Silver  
compounds, Selenides, Decomposition, Reaction  
kinetics.

In the first part of the present paper the thermodynamics  
of selenium vapor is investigated. In connection with  
this a new kind of method, the electrochemical Knudsen  
(Chemistry--Physical, TT, v. 10, no. 2) (over)

Office of Technical Services

63-10909

- I. Title: Knudsen cells
- I. Ratchford, R. J.
- II. Rickert, H.

Zirconiumdioxide as Electrolyte in Electro-  
Chemical Investigations at Elevated Tem-  
peratures, by H. Schmalzried,  
GERMAN, per, Zeitschrift fur Electrochemie,  
Vol 66, No 7, 1962.  
\*BISI 4672

EE-Germany  
Sci/MQM  
Feb 66

On the Zirconium Oxide as an Electrolyte for  
Electrochemical Research at Elevated Temperatures,  
by Hermann Schmalzried, 11 pp.  
GERMAN, per, Z fuer Electrochemie, Vol LXVI,  
No 7, 1962, pp 572-576. 9224494  
AEC-SC-T-64-910

BISI. 4672

Sci-Chem  
Oct 64

267,609

Chemisorption as the Initial Process in the Reaction of  
Gases With Solids, by R. J. Engell, 24 pp.  
GERMAN, per, XZ fuer Elektrochemie, Vol LXVI,  
1962, pp 617-627. 922 35 36  
AEC-SC-T-64-901

Sci-Phys  
Sep 64

265,858

Observations on O-Diffusion in  $TiO_2$ ,  
SO<sub>2</sub> and Quartz Glass, by R. Haul, 6 pp.  
GERMAN, per, Z. Elektrochem, vol 66,  
1962, pp. 636-641.  
\*NBS TT 70-57870

Sci/chem  
June 70

Methane Synthesis From Hydrogen and Carbon at High  
Temperatures and Pressures, by K. Hedden.  
GERMAN, per, Z fuer Elektrochemie, Vol LXVI, No 8, 9,  
1962, pp 652-661.

Dept of Interior  
TN7 E57 No 721

Sci - Chem

Mar 64

251,196

Investigations into the Mechanism of the  
Catalysed Phase Boundary Reaction of Hydrogen  
with Palladium Tantalum and Titanium, by  
A. Kussner.

GERMAN, per, Zeit fur Elektrochem., Vol 66,  
1962, pp 675-679.

NLL Ref: 9022.4 (68/60)

Sci-Phys  
Jan 69

372,588

The Pressure Dependence of  $\text{CaCO}_3$  Formation From the  
Oxide, by W. Nitsch.  
GERMAN, per, Zeitschrift fur Elektrochemie, Vol 66,  
No 8/9, 1962, pp 703-708.  
O. A. trans 1117

sci/mechan engr  
Nov 71

Jäencke, Walther and Hoffmann, Heinz.  
AN INVESTIGATION OF RAPID CONSECUTIVE  
REACTIONS WITH CURRENT PULSES. 31p  
(2 figs omitted) 23refs  
Order from SLA \$3.60

TT-64-16699

TT-64-16699  
I. Jäencke, W.  
II. Hoffmann, H.

Trans. of Zeitschrift für Elektrochemie (West Germany)  
1962, v. 66, no. 10, p. 803-813.

(Chemistry--Physical, TT, v. 12, no. 4)

Office of Technical Services

63-18153

Reuter, Bertold, Weber, Rudolf, and Jaskowsky, Jorg.  
OXIDE SYSTEMS WITH TRANSITION METALS IN  
DIFFERENT OXIDATION STATES AND THEIR ELEC-  
TRIC PROPERTIES. I. THE SYSTEM VO-LiVO<sub>2</sub>  
[1963] 17p. 26 refs.

Order from SLA \$1.60

63-18153

- I. Reuter, B.
- II. Weber, R.
- III. Jaskowsky, J.
- IV. Title: System ...

Trans. of Zeitschrift für Elektrochemie (West Ger-  
many) 1962, v. 66, no. 10, p. 832-838.

DESCRIPTORS: \*Lithium compounds, \*Vanadates,  
Transition elements, \*Vanadium compounds, Manganese  
compounds, Cobalt compounds, Magnesium compounds,  
\*Phase studies, Chemical analysis, X-ray diffraction  
analysis, Resistance (Electrical), \*Thermoelectricity.

Sintered specimens of compounds of the general  
formula  $Li_xV_{1-x}O$ , and for comparison those of the  
general formula  $VO_{1+x}$ , were studied by means of  
(Physics--Solid State, TT, v. 10, no. 10)      (over)

Office of Technical Services

Gerischer, H.  
CATALYST SUSPENSIONS AS CURRENT CARRIERS  
IN ELECTROCHEMICAL PROCESSES. 20 Jun 63 [9p]  
11refs

Order from SLA \$1.10

63-18937

Trans. of [Zeitschrift für Elektrochemie] (West  
Germany) 1963, v. 67, p. 164-167.

DESCRIPTORS: \*Electrochemistry, \*Fuel cells,  
\*Catalysts, Electrical conductance, Electrodes,  
Hydrogen, Oxidation, Oxygen, Reduction (Chemistry)

It is shown, by the examples of the oxidation of hydro-  
gen and reduction of oxygen, that considerable currents  
can be drawn from catalyst suspensions that catalyze  
these reactions in an electrolyte solution. It thus be-  
comes possible to avoid the usual coupling between the  
catalytic and current-carrying functions of an electrode  
in electrochemical processes. (Author)

63-18937

I. Gerischer, H.

(Chemistry--Physical, TT,  
v. 10, no. 12)

Office of Technical Services

The Synthesis of Hydrocyanic Acid From Methane  
With Ammonia, by E.Pfeil, P. Hoffmann. 15 pp.  
GERMAN, per, Zeitschrift fur Elektrochemie, Vol 67,  
No 2, 1963, pp 229-235.  
SLA TT-64-16691

Sci/Chemistry  
Jul 66

305,995

Lippert, E.  
HYDROGEN BRIDGE BONDING AND MAGNETIC  
PROTON RESONANCE. [1963] 26p (figs tables  
formulae refs omitted)

Order from SLA \$2.60

TT-64-10366

Trans. of [Zeitschrift für Elektrochemie] (West  
Germany) 1963. v. 67, no. 3, p. 267-280. (Abstract  
available)

DESCRIPTORS: \*Chemical bonds, Hydrogen, \*Nuclear  
magnetic resonance, Atomic orbitals, Field theory,  
Protons,

A general survey is given on the results obtained from  
some recent spectroscopic nuclear magnetic resonance  
(nmr) investigations on hydrogen bridge bonds, the  
cause of the association shift is discussed, and the  
case of a single monomer  $\rightleftharpoons$  multimer equilibrium is  
treated quantitatively. The method for evaluating the  
equilibrium constants is general in nature, and is not  
limited to nmr spectroscopy. (Author)

TT-64-10366

I. Lippert, E.

(Chemistry--Physical,  
TT, v. 11, no. 9)

Office of Technical Services

The Electrochemical Behavior of Porous  
Ion-Exchange Membranes, by U. F. Franck.  
GERMAN, per, Zeit fur Elektrochemie,  
Vol LXVII, No 7, 1963, pp 657-671.  
SLA TT 64-16191

May 67

327,1203

A Contribution to the Electronic and Geometric  
Factors in Catalysis, by J. Voelter, 8 pp.  
GERMAN, per, Z fur Chemie, Vol III, No 9,  
1963, pp 329-333.  
ATS-27R76G

Sci - Chem  
Jul 66

305,827

Gobrecht, H., Meinhardt, O., and Lerche, M.  
POTENTIAL DEPENDENCE OF THE SURFACE  
RECOMBINATION VELOCITY ON Ge (Über die  
Potentialabhängigkeit der Rekombinationsgeschwindigkeit  
an Germanium-Oberflächen). [1963] [18p] (foreign  
text included) 12 refs

Order from SLA \$1.60

TT-63-20722

Trans. of [Zeitschrift für Elektrochemie] (West  
Germany) 1963, v. 67, p. 486-493. (Abstract available)

DESCRIPTORS: \*Germanium, Surface properties,  
\*Recombination reactions, Velocity, Electrolytes,  
Electrodes, Tests.

The behavior of a thin germanium slice with two  
electrolyte contacts has been investigated. Surface  
recombination velocity was measured as a function of  
electrode potential by means of a light chopping method.  
(Chemistry--Physical, TT, v. 11, no. 3)      (over)

TT-63-20722

I. Gobrecht, H.  
II. Meinhardt, O.  
III. Lerche, M.

Office of Technical Services

Polarographic Investigations of the Discharge  
Kinetics of Complex Metal Ions. III,  
Generalized Method of Analysis of the  
Current-Potential Curves and their  
Application to Zinc-Acetate-Complexes,  
by K. Matsuda, Y. Ayabe, K. Aizaki,  
20 pp.  
GERMAN, per, Zeitschrift für Elektrochemie,  
Vol 67, No 6, 1963, pp 593-601.  
SLA TT-64-30089

336, 205

Sci  
Aug 67

TT-64-18541

Leonhardt, Horst and Weller, Albert.  
ELECTRON TRANSFER REACTIONS OF EXCITED  
PERYLENE. 14p Ztrufs.  
Order from SLA \$1.60                      TT-64-18541

I. Leonhardt, H.  
II. Weller, A.

Trans. of [Zeitschrift für Elektrochemie] (West  
Germany) 1963, v. 67, no. 8, p. 791-795.

(Chemistry--Physical, TT, v. 12, no. 7)

Periodic Electrode Processes and Their Description  
by a Mathematical Model, by U. F. Franck,  
R. Fitzhugh, 24 pp.  
GERMAN, per, Z fuer Elektrochemie, pp 156-168.  
ACSI I-5472  
ID 2204038464

Sci - Chem  
Sep 64

266,883

A  
Cadmium Sulfide/Dyestuff Photoceks, by  
Hans Meier, W. Albrecht.  
GERMAN, per, Zeit fur Elektrochemie, Vol LXVIII,  
No 1, 1964, pp 64-70.  
TC-164

Apr 67

323,076

Investigation of the Dependence of Curie  
Temperature on Particle Size in the Collective  
Paramagnetism of Catalyst Nickel,  
by A. Knappwost, 10 pp.  
GERMAN, per, Z fur Elektrochemie, Vol LXVIII,  
No 2, 1964, pp 163-1969.  
ATS-38R76G

Sci - Chem  
Jul 66

305,826

X-Ray Small Angle Scattering of Isotactic  
and Syndiotactic Polymethyl Methacrylate  
in Solution, by W. Wunderlich.

GERMAN, per, Zeit fuer Elektrochemie, Vol 68,  
No 7, 1964, pp 646-652.

TC-1060

Sci-Materials

Oct 66

313,230

The Significance of Pore Diffusion in the  
Reduction of Iron Ores, by L. von Bogdandy,  
W. Janks.

GERMAN, per, Z fur Elektrochemie Berichte der  
Bunsengesellschaft fur Physikalische Chemie,  
Vol LXI, No 9, 1957, pp 1146-1153.

BISI 2804

Sci - M/M  
Jul 62  
List No 137

203,432

70. CEA-tr-A-818 UNCLASSIFIED  
TYPES DE REACTIONS D'OXYDATION DES ALLIAGES. (Types  
of Oxidation Reactions of Alloys.) C. Wagner.  
Translated from Z. Elektrochem., Ber. Bunsengesellsch.  
phys. Chem., Dtsch., 63, 7, 772-790(1959). 77p.  
Dep.(mc).

MC-4

Chemistry; Metallurgy; Translations

22. GEA-tr-A-822 UNCLASSIFIED  
RECHERCHES SUR LE MECANISME. DE L'OXYDATION DU FER  
PUR ET D'ACIERS FAIBLEMENT ALLIES. (Research on  
the Mechanism of Oxidation of Pure Iron and Low-  
Alloy Steels.) H. J. Engell. Translated from  
Z. Elektrochem., Ber Bunsengesellsch. Phys. Chem.,  
Dtsch., 63, 7, 835-845(1959). 39p. Dep.(mc).

MC-25

Corrosion; Metallurgy; Translations

Investigations on the Mechanism of Oxidation of  
Pure Iron and Low Alloy Steels, by H. J. Engell.

GERMAN, per, Zeitschrift für Elektrochemie Berichte  
der Bunsengesellschaft für Physikalische Chemie,  
Vol LXIII, 1969, pp 835-859.

BISI 3020

Sci - M/M  
Feb 63

Fluorescence of  $H_2CO$  (Excitation Conditions and  
Vibrational Analysis), by G. Herzberg, K. Franz,  
11 pp.  
GERMAN, per, Zeit fur Physik Chemie, Vol 76, 1932,  
pp 720-728.  
AIR/FTD/HT-23-626-69

Sci-Chem  
7.1 70

About the Electrolytic Production of Dichloro-  
ethylene, by P. Askenasy, C. Vogelsohn.

GERMAN, per, Zeitschrift fuer Elektrochemie und  
Angewandte Physikalische Chemie, Vol XV, 1909,  
pp 773-779.

AEC Tr 403

May 1951 CT8

Scientific - Chemistry

13,002

~~CONFIDENTIAL~~

Air Pollu. #235

R-8526-D

3 Aug 67

Hauptversammlung der Deutschen Bunsen-Gesellschaft für  
angewandte physikalische Chemie e.V.

By: M. Bodenstein

From: Zeitschrift für Elektrochemie und Angewandte  
Physikalische Chemie. July 1, 1918, pp183-201 (19 pp)

German - est for wds:

Please translate and type 1 original and 1 carbon  
copy. Document can be cut.

A New Method for Determining the Melting  
Point of Refractory Metals,  
by Marcello Pirani, Hans Alterthum.  
GERMAN, per, Z fuer Elektrochemie und  
Angewandte Physikalische Chemie, Vol XXIX,  
1923, pp 5-8.  
\*AEC

Sci-Chem; M/M  
Mar 65

Conductivity measurements of cryolite alumina  
melts, by Kurt Arndt, Wilhelm Kalass, 11 pp.

GERMAN, per, Ztft. f. Elektrochemie u. angew.  
physikal. Chem, Vol XXX, 1924, No 12.

S.L.A. Tr 963

Sci - Chemistry

33,024

Apr 56

Vaporization of Magnesium Under Vacuum, by Philipp Siedler, Waldemar Kaufmann, 13 pp.

GERMAN, per, ~~Z fuer Elektrochemie und Ange Physik~~  
Chemie, Vol XXXVII, 1931, pp 492-497.

Dept of Commerce  
Patent Office  
Sci Lib (Gift)

Sci - Chem  
Aug 57

51,465

Decomposition Pressures of Nitrates and Sulfates  
III, by Bernhard Neumann, August Sonntag.  
GERMAN, per, Zeit Elektrochem Angew Phys Chem,  
Vol 41, No 8, 1935, pp 611-615.  
P911201868-V  
AEC-tr-6938

Sci-Chem  
Aug 68

357,438

A Room With New Equipment for Working With  
Gases, in Particular With the Use of Mercury  
as Sealing Liquid, by A. Klemenc.

GERMAN, per, Z. fuer Elektrochemie under  
Angewandte Physikalische Chemie, Vol XLIV,  
No 4, 1938, pp 243-248.

CSIRO 5172

Sci  
Dec 62

Direct Rapid Analysis With Use of the Dropping  
Mercury Electrode, by J. Boeke, H. Van Suchtelen

GERMAN, per, Z. Elektrochemie und Angewandte  
Physik Chemie, Vol XLV, 1939.

Brutch Tr 811 (\$2.80)

Scientific - Chemistry

16,081

Diffusion of Some Metals in Aluminum, by  
A. Beerwald.

GERMAN, per. Z. Elektrochem. Angew. Phys.  
Chem., 45, 1939, pp 789-795.

\*NES TT 70-57339

Sci-Mat  
Aug 70

Obtaining Stable Nb-Ni Alloys by Reduction of  
Nb Pentoxide in the Presence of Ni, by G. Grube,  
et al, 12 pp.

GERMAN, per, Z fuer Elektrochemie und Angewandte  
Physikalische Chemie, Dec 1939, pp 881-884.

SIA 58-2428

ISIS 2099

Sci - Chem

May 61

148,111

Contributions to the Knowledge of Zinc Ferrite  
Formation and Zinc Reduction Under the Condi-  
tions of Zinc Smelting. (Preliminary Communi-  
cation.) Part I. The Formation of Zinc Ferrite,  
by A. Simon, 18 pp.

GERMAN, per, Zeitschrift für elektrochemie und  
angewandte physikalische chemie, Vol XLVI,  
1940, pp 458-480.

Sci - Min/Met  
Apr 1957

SLA Tr 1820 Jan 1957

46,302

The Behaviour of Iron Oxide With Some Admixed  
Foreign Oxides at Temperatures of About 1300°C,  
by N. G. Sejmahl.

GERMAN, per, Z fuer Elektrochemie und Angewandte  
Physikalische, Vol XLVII, Dec 1941, pp 835-843.

British Ceramic Res ASSOC

Sci - Chem

129,673

Oct 60

The Formation and Electro Chemical Breakdown of  
Oxide Layers on Metals, by F. Todt

GERMAN, per, Zeit fur Elektro Chem u Angew Physik  
Chemie, 54 No 6, Oct 1950, pp 485-494.

Navy 472/BuShips 439  
Also ACSIL Tr No 548

Activities in the Case of Diffusion in Ternary  
Metallic Systems, by W. Seith, H. Wever, 6 pp.

GERMAN, per, Zeit. fuer Elektrochemie und  
Angewandte Physikalische Chemie, Vol LV, No 5,  
1951, pp 380-384.

A.E.R.E. Harvell Tr 472.

Sci - Minerals/Metals, diffusion

31, 364

Characterisation of Semipermeable Membranes  
for Osmotic Purpose, by G. Mazerhoff.

GERMAN, par, Z. fuer Elektrochemie und  
Angewandte Physikalische Chemie, Vol LXI,  
No 2, 1957, pp 325-332.

ASLIB GB 39

Sci - Phys, Chem  
Apr 62

192,067

Gas Adsorption and Surface Structure, by G. F. Huttig,  
O. Theimer, 22 pp.

Full translation.

GERMAN, per, Z. Electroch., Ber. Bunsenges. Physik.  
Chem., Vol LVI, No 5, 1952, pp 490-496.

S.L.A.

Scientific - Chemistry

26,013

Jul 55

62-10363

Feltknecht, W.  
ON THE OXIDATION OF SOLID HYDROXY COM-  
POUNDS OF IRON IN AQUEOUS SOLUTIONS.  
[1961] 19p. (16 figs. omitted) 45 refs.  
Order from SLA \$1.60

62-10363

Trans. of Z[eitschrift fur] Elektrochem[ie] (West  
Germany) 1959, v. 63 [no. 1] p. 31-43.

DESCRIPTORS: \*Iron compounds, \*Hydroxides,  
Solids, \*Oxidation, Solutions, Mixtures, X-rays,  
Electron microscopy, Magnetite, Crystals.

The oxidation of  $\text{Fe}(\text{OH})_2$  by  $\text{O}_2$  or  $\text{O}_2/\text{N}_2$  mixtures  
in both strong and weak alkaline solutions in the  
presence of  $\text{Cl}^-$  and  $\text{SO}_4^{--}$  ions has been investigated  
by using X-rays and electron microscopy. On very  
rapid oxidation  $\delta$ - $\text{FeOOH}$  (formerly designated  $\delta$   
 $\text{Fe}_2\text{O}_3$ ) is formed topochemically. In 1N NaOH at  
70°C,  $\delta$ - $\text{FeOOH}$  is converted into  $\alpha$ - $\text{FeOOH}$  through-  
(Chemistry--Physical, TT, v. 7, no. 9) (over)

I. Feltknecht, W.

Office of Technical Services

Investigations on the Mechanism of Oxidation of  
Pure Iron and Low Alloy Steels, by H. J. Engell.

GERMAN, per, Zeitschrift fur Elektrochemie Berichte  
der Bunsengesellschaft fur Physikalische Chemie,  
Vol LXIII, 1969, pp 835-859.

BIBI 3020

Sci - M/M  
Feb 63

~~XXXXXXXXXX~~  
224,251

Theory and Calculation of Fuses, by R. Edler,  
30 pp.

GERMAN, per, Z Elektrotech u Maschinenbau,  
Vol XXVIII, 21 Jan-Feb 1914.

SLA 57-2220

May 58

64,541

(FDD 20593)

The Founding of the Geographic Society of the German  
Democratic Republic, 7 pp.

GERMAN, no par, Zeitschrift fuer den Erdkundeunterricht,  
Vol V, No 12, Berlin, 1953, pp-375-378.

CIA FDD/U-5364

REur - Germany

Geographic

12,316

Apr 54 CTS

(FDD 20594)

Vietnam, Pathet-Lao and Khmer; Vegetation Map, 5 pp.

GERMAN, no DSK. Zeitschrift fuer Den Erdkundeunterricht,  
No 12, Berlin, 1953, pp 390, 391.

CIA/FDD/U-5865

FK - Vietnam  
Geographic

~~SECRET~~ 13, 169

May 54 CTS

(FDD 22207)

The Strela Sound (GermanX) by Harry Schmidt,  
Hans-Karl Hacker, 8 pp.

GERMAN, no per, Zeitschrift fuer den Erdkun-  
deunterricht, Vol VI, No 6, Berlin, Jun 1954,  
pp 190-192.

CIA/FDD/U-6501

ESur - Germany  
Geo

13,895

R-2328 SETEE

( NY-2164 ).

The Economic Help of the GDR to Bulgaria, by Konrad Illgen,

GERMAN, per, ~~Zeit~~ fuer den Erdkundeunterricht, No 7, 1958, pp 208-217.

\*US JPRS

EE - East Germany, Bulgaria

Econ

Dec 58

R-2268

(NY-1953)

The Black Pump Combine and Its Surroundings as  
Seen From an Economic Viewpoint, by Georg Weibert,  
15 pp. (Sel Econ Trans on EKur). UNCLASSIFIED

GERMAN, per, Z fuer den Erdkundeunterricht, Vol X,  
No 8, 1958, Berlin, pp 227-237.  
b

US JPRS/NZ-906

EKur - Germany  
Econ - Fuels, power  
Nov 58

76,483

NY-1963 (b)

The Black Pump Combine and Other Industrial  
Enterprises in the Southeast Sector of Cottbus  
Bezirk, by Herbert Meissner, 13 pp.

GERMAN, per, Zeit fuer den Erdkundeunterricht,  
Vol X, No 8, Berlin, Aug 1958, pp 248-256.

US JPRS/NI-L-501

KEur - Germany  
Econ - Fuel & power  
Dec 58

70,535

Lake Balaton, by Rudolph Sachse.

GERMAN, per, Zeitschrift fuer den Erziehungunterricht,  
Vol XII, No 5, 1960, pp 194-198. (Call No G13,  
248, Eng Tr)

AMS

EUR - Hungary  
Geo  
Sep 60

126,540

The Mongolian People's Republic, by Hellmuth Barthel,  
6 pp.

GERMAN, per, Z. für den Erdkunde-Unterricht,  
Vol XIV, No 8/9, 1962, (Call No. G13 Z48 Eng Trans).

Army Map Service

FE - Mongolia  
Pol  
3 Dec 62

Activation of the ATP-~~PHOSPHATE~~ Splitting in the  
Muscle of Warm-Blooded and Cold-Blooded  
Animals by Freezing and Mechanical Injury,  
by N. Partmann.

GERMAN, per, Z fuer Ernährungswissenschaften,  
Vol II, 1961, pp 70-88.

CSIRO/No. 6181

Sci-Biol  
Jun 63

~~234,629~~  
234,648

Absorption of Fluorescent Tobacco-Smoke  
Components by the Blood and Variation of  
Their Concentration During Smoking, by  
L. Ungvary, M. Hovany, F. Farkas. 6 pp.  
GERMAN, per, Zeit fur Ernährungswissenschaft,  
Vol III, 1963, pp 168-170.  
SLA TT-64-10605

Sept 66

309,750

Investigations About the Chronic Toxicity  
of Ascorbic Acid in the Rat, by W. Kieckebusch.  
GERMAN, per, Zeitschrift fuer Ernaehrungs-  
wissenschaft, Vol 4, 1963, pp 5-14.  
NTC-71-14937-06T

Feb 72

Preparation of Pure Indium (99.99%) From Crude  
Indium, by R. Kleinert, H. Dreyer, 7 pp.

GERMAN, per, Zinnbergbau u metallhüttenw, Vol I,  
No 1, 1948, pp 79-83.

SLA Tr 1825 Jan 1957  
46,307

Sci - Min/Met  
Apr 1957

The Smelting of Nickel- Silver Scrap Residues  
and Swarf, by E. J. Kohlmeier, 14 pp.

*2. Nickel-Silver Scrap Residues*  
GERMAN, per, Brametall, Vol II, No 1, pp1-6, 1949.

S. L. A. Tr 621/56

Sci - Min/Met

38,322

Aug 56 CTS/dex

Development of Aluminum Scrap Refining in the Three  
Layer Electrolytic Cell, by Werner Helling, Hans Kay,  
37 pp.

*Handwritten:* - 3, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

GERMAN, per, Swastall, Vol II, 1949, pp 65-69.

S.I.A. No 333/1956

Scientific - Minerals/metals 34, 3/16

Recent Investigations on Industrial Lead Poisoning,  
by E. Miksch, 9 pp.

*Ernst Miksch*  
GERMAN, per, Ernst Miksch, No 10, 1949, pp 289-296.

SIA Tr 1826 *Jan 1957*

**REMARKS**

Sci - Min/Met  
Apr 1957

*46,308*

63-18557

Szantho, Eugen von.  
THE INFLUENCE OF SURFACE-ACTIVE SUBSTANCES  
ON FINE-GRINDING. [1963] 10p (figs. omitted) 13refs  
Order from SLA \$1.10      63-18557

I. Szantho, E. von

Trans. of Zeitschrift für Erzbergbau und Metall-  
hüttenwesen (West Germany) 1949, v. 2, p. 353-360.

DESCRIPTORS: \*Surface-active substances, \*Material  
forming, Ores (Metal sources), Ores (Non-metallic),  
Milling machines, Lubrication, Flotation.

Topics include: the significance of grinding in industry;  
theoretical considerations about the grinding process;  
investigations on the influence of interfacial energy  
with grinding and similar processes; characteristic  
grinding tests with the addition of surface-active agents;  
grinding result and lubricating effect of addition agents;  
and, outlook.  
(Metallurgy, TT, v. 10, no. 11)

Office of Technical Services

A New Universal Rotating Stage for Ground  
and Polished Surfaces and its Applications,  
by H. Ehrenberg.

GERMAN, per, Z. Erzhergbau u Metallhutt,  
Vol III, 1950, pp 65-69.

INSDOC-T1682

Sci

Aug 58

71,676

The Separation of Alloys by Centrifuging, by W.  
Roth.

GERMANY, per, Zeitschrift für Bergbau und  
Metallhüttenwesen, Vol LIX, 1950, pp 328-334.

Dept of Int  
US Bur of Mines  
Eastern Exper Sta  
College Park, Md.

Sci - Engr

87,743

May 59

The Action of Fluorides on an Aluminum-  
Magnesium Alloy, by W. Dautzenberg. 16 p.  
GERMAN, per, Zeit. fuer Erzbergbau und Met-  
allhuettenwesen, Vol 4, 1951, pp 14-19.  
SLA TT-66-10629

Sci-M&M  
Jul 66

306,078

The Influence of Impurities of the Processing of  
Copper, by O. Nielsen, 11 pp.

GERMAN, no per, Z. Erzbergbau und Metallhuettenw.  
Vol IV, 1951, pp 169-170.

SLA 2321

Sci - Minerals/Metals  
Oct 57

54, 038

75 Years of Electrolytic Copper Refining at  
Norddeutsche Affinerie, Hamburg, by K. Prior, 8 pp.

GERMAN, no per, ~~Z. Erbergbau und Metallhuettenw.~~  
M Vol IV, No 7, 1951, pp 245-249.

SLA Tr 2319

Sci - Minerals/Metals  
Oct 57

54,037

Production of Lead From PbS by a New Process, by Olov  
Kerneryd, 4 pp.

GERMAN, per Erzmetall, Vol IV, No 11, Nov 1951,  
pp 416-418.

1122  
S.L.A. Tr ~~2076~~/1956

Sci - Minerals/Metals  
Oct 56 CTS

40,039

On the Present State of the Electrometallurgy of the  
Non-Ferrous Metals, by Georg Egar, 9 pp.

GERMAN, por, Erzmetall, Vol. V, 1952, pp 270-276.

S.L.A. Tr 1097  
1097  
1097/1956

Sci - Minerals/Metals  
Oct 56 CRB

40,103

The Effect of Oxygen at High Pressures on Sulphide  
Ores, by H. Neuhaus, F. Pairlek, 6 pp.

*E. J. ...*  
GERMAN, per, Frankfurt, Vol VI, No 2, Feb 1953,  
pp 41-44.

S.L.A. Tr 1152/1956

Sci - Min/Metals  
Oct 56 CTS

*40,058*

The Pattern of Vibration of Hollow Drill Rods in  
Impact Drilling, by M. H. Gloeckner. UNCL

GERMAN, per, Erzmetall, Vol VI, No 3, 1953,  
p 81.

British Iron and Steel Ind  
(no number given)

Sci - Engr  
Sep 59

98,083

A Spectrochemical Method for the Quick Quantitative Determination of Trace Elements in Galena, ~~xxxx~~ by F. Hegemann, G. Leybold, 11 pp.

*= Lightbeam in Metallurgie*  
GERMAN, per, ~~Erzmetalle~~, Vol VI, No 5, 1953, pp 175-180.

S.L.A. Tr 1238

Sci - Min/Metals  
Jan 57 OTS

42,665

Oxidation Velocity of Antimony in the Refining of  
Crude Lead, by P. Rontgen, W. Hilgers, Gottschol.

GERMAN, per, Zeitschrift für Erbergbau und  
Metallhüttenwesen, Vol VI, 1953, pp 220-226.

Dept of Int  
US Bur of Mines  
Eastern Exper Sta  
College Park, Md.

Sci - Engr

87, 742

May 59

The Production and Fabrication of High-Purity  
Aluminium, by Werner, Helling, 20 pp.

GERMAN, per, ~~RESEARCH~~ Zeit fuer Erzbergbau und  
Metallhüttenwesen, Vol VI, No 8, Aug 1953,  
pp 310-317.

S.L.A. Trans 939

*Sci - Minerals*  
Sci - Minerals/Metals

*Com. Div. 111*

29,890